EFFECT OF VARIATION IN ELECTRICAL POWER SUPPLY

FOR BALANCES WITH A SERIAL NUMBER BELOW 21639

As a general rule, one might anticipate about a 7% sensitivity change for a 20 volt change in line voltage. In other words, if it took 160 counts for a full scale deflection at 105 volts, it would take 150 counts for full scale deflection at 125 volts.

One might anticipate a zero point change of approximately 1/10 milligram for every three volts of line voltage change.

The "range" change because of line voltage change is nil.

Under no conditions should the balance be operated where the line voltage is below 95 volts or over 130 volts.

EA-1s with serial numbers below 21639 should not be operated on 50 cycle current. A special transformer may be obtained to allow 50 cycle operation.

FOR BALANCES WITH SERIAL NUMBER 21639 & UP

One should anticipate no appreciable sensitivity change in going from 105 volts to 125 volts.

The balance should not be operated where the line voltage is below 95 volts or over 130 volts.

Zero point change or range change because of line voltage change is nil.

These balances may be operated on either 50 or 60 cycle current.